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Current Claims

Claims 1-5 (cancelled).

Claims 14-16 (cancelled).

Claim 19 (cancelled).

Claims 24-26 (cancelled)

- 28. (New) A composition comprising an isolated antibody capable of binding to an epitope of the protein encoded by SEQ ID NO: 16, wherein said antibody has antitumorigenic activity.
- 29. (New) A composition according to claim 28, wherein said antibody inhibits the growth of tumorigenic cells by at least about 50%.
- 30. (New) A composition according to claim 28, wherein said epitope comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, and SEQ ID NO: 7.
- 31. (New) A composition according to claim 28, wherein said antibody is selected from a group consisting of anti-K19T, anti-S14R, anti-E19V, and anti-A14R antibodies.
- 32. (New) A composition according to claim 28, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 3.
- 33. (New) A composition according to claim 28, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 4.
- 34. (New) A composition according to claim 28, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 5.

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45. (New) The composition of claim 43, wherein said cytotoxic molecule is an oncotoxin.

- 46. (New) A composition comprising a monoclonal antibody capable of binding to an epitope of the protein encoded by SEQ ID NO: 16, wherein said monoclonal antibody has anti-tumorigenic activity.
- 47. (New) A composition according to claim 46, wherein said antibody inhibits the growth of tumorigenic cells by at least about 50%.
- 48. (New) A composition according to claim 46, wherein said epitope comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, and SEQ ID NO: 7.
- 49. (New) A composition according to claim 46, wherein said antibody is selected from a group consisting of anti-K19T, anti-S14R, anti-E19V, and anti-A14R antibodies.
- 50. (New) A method of making an antibody, comprising immunizing an animal with a protein encoded by at least a portion of SEQ ID NO: 16, and producing said antibody in said animal, wherein said antibody has anti-tumorigenic activity.
- 51. (New) A method of making the antibody of claim 50, wherein said protein comprises SEQ ID NO: 3.
- 52. (New) A method of making the antibody of claim 50, wherein said protein comprises SEQ ID NO: 4.
- 53. (New) A method of making the antibody of claim 50, wherein said protein comprises SEQ ID NO: 5.
- 54. (New) A method of making the antibody of claim 50, wherein said protein comprises SEQ ID NO: 6.

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35. (New) A composition according to claim 28, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 6.

- 36. (New) A composition according to claim 28, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 7.
- 37. (New) A composition according to claim 28, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 16.
- 38. (New) The composition of claim 28, wherein said antibody is a chimeric antibody comprising a plurality of portions, wherein at least one portion is derived from a human.
- 39. (New) The composition of claim 38, wherein at least one portion is derived from a non-human animal.
- 40. (New) The composition of claim 39, wherein said non-human animal is a mouse.
- 41. (New) The composition of claim 38, wherein said at least one portion is a constant region.
- 42. (New) The composition of claim 38, wherein said at least one portion is a variable region.
- 43. (New) The composition of claim 28, further comprising a cytotoxic molecule, wherein said antibody is attached to said cytotoxic molecule.
- 44. (New) The composition of claim 43, wherein said cytotoxic molecule is selected from the group consisting of toxins, oncotoxins, mitotoxins, immunotoxins, and antisense oligonucleotides.

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55. (New) A method of making the antibody of claim 50, wherein said protein comprises SEQ ID NO: 7.

- 56. (New) A method of inhibiting tumorigenic activity, comprising obtaining an antibody capable of binding to an epitope of the protein encoded by SEQ ID NO: 16, wherein said antibody inhibits tumorigenic activity; and contacting said antibody with the protein encoded by SEQ ID NO: 16.
- 57. (New) A method according to claim 56, wherein said antibody is selected from the group consisting of anti-K19T, anti-S14R, anti-E19V, and anti-A14R antibodies.
- 58. (New) A method according to claim 56, wherein said epitope comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 6, and SEQ ID NO: 7.
- 59. (New) A method according to claim 56, wherein said antibody is isolated from an animal immunized with a material comprising SEQ ID NO: 3.
- 60. (New) A method according to claim 56, wherein said antibody is isolated from an animal immunized with a material comprising SEQ ID NO: 4.
- 61. (New) A method according to claim 56, wherein said antibody is isolated from an animal immunized with a material comprising SEQ ID NO: 5.
- 62. (New) A method according to claim 56, wherein said antibody is isolated from an animal immunized with a material comprising SEQ ID NO: 6.
- 63. (New) A method according to claim 56, wherein said antibody is isolated from an animal immunized with a material comprising SEQ ID NO: 7.
- 64. (New) A method according to claim 56, wherein said antibody is isolated from an animal immunized with a material comprising SEQ ID NO: 16.

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65. (New) A method of inhibiting tumor cell proliferation, comprising administering to a tumor cell an effective amount of an antibody capable of binding to an epitope encoded by SEQ ID NO: 16 wherein said antibody inhibits tumor cell proliferation.

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- 66. (New) A method according to claim 65, wherein said tumor cell is selected from the group consisting of breast, ovarian, adipose, brain, liver, and kidney cells.
- 67. (New) A method according to claim 65, wherein said antibody inhibits tumor cell proliferation by at least about 50%.
- 68. (New) A method according to claim 65, wherein said antibody is selected from the group consisting of anti-K19T, anti-S14R, anti-E19V and anti-A14R antibodies.
- 69. (New) A method according to claim 65, wherein said epitope comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, and SEQ ID NO: 7.
- 70. (New) A method according to claim 65, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 3.
- 71. (New) A method according to claim 65, wherein said antibody is produced in an animal immunized with a material comprising \$EQ ID NO: 4.
- 72. (New) A method according to claim 65, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 5.
- 73. (New) A method according to claim 65, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 6.
- 74. (New) A method according to claim 65, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 7.

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75. (New) A method according to claim 65, wherein said antibody is produced in an animal immunized with a material comprising SEQ ID NO: 16.